Q:The maximum number of nodes at any level is

1. log n
2. n log n
3. n
4. 2n

**Answer :: (D)**  
  
**Explanation:**  
  
In the o level there are 2^0 node that is 1.  
  
In the 1 level there are 2^1 node that is 2.  
  
In the 2 level there are 2^2 node that is 4.  
  
So that the maximum number of the node can be get from 2n.

Q:

The children of the same parent are known as ?

1. Leaf node
2. Non leaf node
3. Adjacent node
4. Siblings

**Answer :: (D)**  
  
**Explanation:**  
  
Two children of the same parents are known as the siblings.

**Question 3**

The children of the same parent are known as ?

1. Leaf node
2. Non leaf node
3. Adjacent node
4. Siblings

**Answer :: (D)**  
  
**Explanation:**  
  
Two children of the same parents are known as the siblings.

**Question 4**

Which of the following is not a height balanced tree ?

1. Binary search tree
2. Binary heap tree
3. splay tree
4. AVL tree

**Answer :: (A)**  
  
**Explanation:**  
  
In the binary search tree we just put the value either left or right side. So it is not a height balanced tree.  
  
In a height balanced binary the difference  in level of the left subtree and right subtree should be <= 1.

**Question 5**

Which traversal have a same sequence of the nodes name  for both of the trees..?

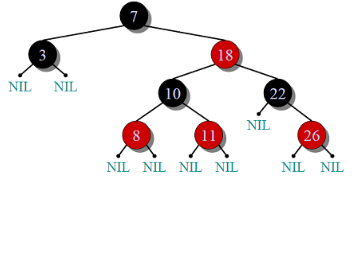
1. Postorder and postorder
2. Postorder and preorder
3. Postorder and inorder
4. preorder and preorder

**Answer ::(C)**  
  
**Explanation:**  
  
**For first tree:**  
  
inorder: GEHIDFBAC  
  
Pre Order: ABDEGHIFC  
  
Postorder: GIHEFDBCA  
  
**For second tree:**  
  
Inorder: GIHEFDBCA  
  
Pre Order: ABDEGHIFC  
  
Postorder: GIHEFDBCA  
  
**So here postorder and inorder are same of both tree.**

**Question 6**

In which tree a leaf node carries null value

1. Complete tree
2. Red black tree
3. Splay tree
4. Binary search tree

**Explanation:**  
  
  
  
Here the child node has a null value.

**Question 7**

In which traversal root node is visit at the starting.?

1. Preorder
2. Postorder
3. Inorder
4. None of these

**Explanation: w**hen we want to traverse the tree in preorder so we must follow this sequence   
  
That is **Root Left Right .**

**Question 8**

The expression which is used in a programming language.?

1. Postfix
2. Prefix
3. **Infix**
4. Depend on Language

**Question 9**

What type of data structure is used by Spell check dictionary.?

1. Linked list
2. Queue
3. Stack
4. **Binary tree**

**Explanation:**In a tree, each successive node on your tree is a character and reading a path of the end node gives you the spelling of the word .

**Question 10**

In which data structure all the text and attributes are stored.

1. Stack
2. Binary Tree
3. Queue
4. None of them

**Explanation:**in a tree we can store all text and corresponding attribute.

**Question 11**

In which data structure all the text and attributes are stored.

1. Stack
2. Binary Tree
3. Queue
4. None of them

**Explanation:**in a tree we can store all text and corresponding attribute.